Claims

1.-11 (canceled)

12. (new) A method for exchanging signaling information between a PRA ISDN connection and a packet-oriented exchange via a peripheral adapter, comprising:

processing the signaling information transferred from the PRA ISDN connection by the packet-oriented exchange as a BRA ISDN connection;

adapting the transferred signaling information in the peripheral adapter in accordance with the ISDN connection type of the PRA ISDN connection; and

adapting the signaling information transferred from the packet-oriented exchange to the peripheral adapter in accordance with the ISDN connection type of the PRA ISDN connection,

wherein PRA ISDN the connections are represented by BRA ISDN connections in the packet-oriented exchange.

13. (new) The method according to claim 12, further comprising:

representing different ISDN connections by a single connection type in the packet-oriented exchange;

representing ISDN connections in the packet oriented exchange in accordance with the connection type of the ISDN connection from the ISDN connection type;

exchanging the signaling information between the ISDN connection and the packet-oriented exchange; and

adapting the exchanged information in the peripheral adapter in accordance with the different ISDN connection types.

14. (new) The method according to claim 13, wherein adapting the signaling information ensues to a map of data channels differentiated for the respective ISDN connection type on top of each other.

15. (new) The method according to claim 14, wherein the mapping ensues via a table in the peripheral adapter.

16. (new) The method according to claim 13, wherein different ISDN connection types are represented in the packet-oriented exchange by at least a BRA connection and the type of the ISDN connection is given by a PRA connection.

17. (new) The method according to claim 14, wherein a concentration of the data channels ensues as part of the mapping.

18. (new) The method according to claim 14, wherein a call identifier and a bearer channel reference are adapted to the map of the data channels.

19. (new) The method according to claim 12, wherein a DSS1 protocol is used between the ISDN connection and the peripheral adapter, and a connection is maintained on a layer of the DSS1 protocol.

20. (new) The method according to claim 12, wherein the exchanged signaling for controlling the data channels to the map of data channels.

21. (new) The method according to claim 20, wherein a protocol selected from the group consisting of Media Gateway Control Protocol and H.248 protocol is used between the peripheral adapter and the packet-based exchange for signaling the control of the data channels.

22. (new) A peripheral adapter for a connection of an ISDN private branch exchange or ISDN terminal to a packet network, comprising a resource for adapting signaling information transferred from a PRA ISDN connection to a packet-oriented exchange for the purpose of the signaling information being processed by the packet-based exchange as signaling information of BRA ISDN connections.

23. (new) The peripheral adapter according to claim 22, wherein the adapter is adapted to adapt signaling information that corresponds with different ISDN connection types; and for adapting the signaling information via a mapping of data channels differentiated for the respective ISDN connection type on top of each other.

24. (new) The peripheral adapter according to claim 22, further comprising a table

for adapting signaling information to the map of the data channels.

25. (new) The peripheral adapter according to claim 22, wherein the different ISDN connection types are given by a BRA connection a packet-switched network end and the PRA ISDN connection at an ISDN connection end.

26. (new) The peripheral adapter according to claim 23, wherein the adapter is further adapted to adapt a call identifier and a bearer channel reference.

27. (new) The peripheral adapter according to claim 22, wherein the adapter is designed as a LAD or an MTA.